



State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095  
(603) 271-3406 FAX (603) 271-7894



GS Young  
329 Marsh Point Circle  
Saint Augustine, FL 32080-5864

January 16, 2001  
**Letter of Deficiency**  
DAM #224.21

RE: Wildlife Pond Dam, Strafford

Dear Mr. Young:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on November 7, 2000. During this visual inspection and/or file review, the following deficiencies were observed:

- Vehicles access the crest of the dam There are ruts and the crest is not level
2. There is standing water downstream of the outlet pipe which hinders a thorough evaluation of the structural integrity of the outlet pipe as well as an examination of the toe drain outlets;
  3. There is debris in the outlet works
  4. The trash rack is not of an approved design;
  5. The upstream face, crest, downstream face and within 10' of the downstream toe have extensive tree and brush growth. This hinders a thorough inspection;
  6. There are animal burrows on the upstream face of the dam
  7. It is not known if the low level gate is operable;
  8. There is an area of erosion towards the right end of the dam that appears to be acting as a boat launch (15' wide x 2' high); and
  9. The area at the right end of the dam, which was the emergency spillway, had breached in the past. There is only approximately 8" of freeboard.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

**June 1, 2001:**

1. Discontinue vehicular access across the crest of the dam. Level the crest and establish or place an erosion resistant cover;
2. Clear the downstream outlet channel to remove standing water downstream of the outlet pipe and conduct a thorough evaluation of the structural integrity of the pipe and the toe drains;

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3. Remove debris from the outlet works including the low level pipe;
4. Replace the cyclone fence trash rack with the angle iron arrangement originally approved;
5. Remove trees and brush from the upstream face, crest, downstream face and within 10' of the downstream toe. Upon completion of this item a more thorough inspection of the downstream areas will be conducted. Also, an erosion resistant cover will need to be established or placed in any disturbed or bare areas;
6. Remove any animals from their burrows in the dam and fill and compact all burrows located on the upstream face of the dam or elsewhere;
7. Notify our office, in writing, as to the operability of the low level gate. If inoperable return it to its fully functional condition;
8. Fill and compact the area of erosion towards the right end of the dam that appears to be acting as a boat launch (15'w x 2'h) and ensure a hearty erosion resistant cover is either established or placed;
9. Reconstruct the emergency spillway in a proper manner as submitted and approved in the original design. DES should approve the materials and methods associated with this work prior to its initiation; and
10. Prepare and submit to the DES a written operational procedure plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

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If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

  
**COPY**  
Nancy L. McGrath  
Engineering Technician  
Dam Bureau

Attachments Guideline for an O&M plan, DB8, DB13  
cc: Gretchen Rule

Town of Strafford

Certified # 7099 3400 0002 9772 9073

NLM/was/h:/safety/wendy/lod/224-21lod.doc